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IS 10854-2 (1984): Cutter Suction Dredge Components, Part 2: Suction Pipe [TED 18: Inland, Harbour Crafts and Fishing Vessels]

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“Knowledge is such a treasure which cannot be stolen”



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Indian Standard

**SPECIFICATION FOR
CUTTER SUCTION DREDGE COMPONENTS**
PART 2 SUCTION PIPE

1. Scope — Specifies the requirements of the suction pipe as a component in the cutter suction dredgers.

2. Requirements

2.1 Design — The diameter of the suction pipe shall be derived taking into consideration the following:

- i) Pump's output, and
- ii) The minimum velocity allowable in the pipe.

2.1.1 The suction mouth opening shall fit into the cutter below its center. This shall normally be of elliptical shape. The suction mouth area shall be chosen depending upon dredge material. The average area of the suction mouth shall usually be 1.25 times of the area of the suction pipe.

2.2 Material — The connected sections of the pipe shall be of mild steel conforming to IS : 226-1975 'Structural steel (standard quality)'.

2.3 Construction — The suction pipe shall be assembled in flange-connected sections of 3 to 6 m long. The thickness of the pipe shall be not less than 14 mm.

E X P L A N A T O R Y N O T E

Suction pipe transports material from the cutter to the pump. It is supported beneath the ladder and is flexibly connected to the hull by a ball joint, trunnion elbow or rubber sleeve.

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